

Read Me First

hp StorageWorks Enterprise Virtual Array

Product Version: 3.014

About This Document

This document tells you how to obtain additional support and technical information for the HP StorageWorks Enterprise Virtual Array (EVA).

This document also provides important information that you will need prior to operating the HP StorageWorks Enterprise Virtual Array storage system. This software kit contains VCS v3.014. This version is a patch release based on VCS v3.010 and is subject to the same support requirements. The documents needed to install and operate the HP StorageWorks Enterprise Virtual Array Version 3.014 are listed in this document. The documents included with this release reference VCS v3.010 and are fully applicable to this release. The VCS V3.014 Release Notes document will detail the changes included in VCS v3.014.



How to Get Help with Installation

An HP authorized service provider will assist you with the installation of the hardware and software components that make up the Enterprise Virtual Array system.

Note: HP highly recommends that you do not attempt to install or set up the system without an HP authorized service provider.

In North America, call HP technical support at 1-800-354-9000. This service is available 24 hours a day, 7 days a week.

Note: For continuous quality improvement, calls may be recorded.

Outside North America, call HP technical support at the nearest location.

Telephone numbers for worldwide technical support are listed on the HP web site at: <http://www.hp.com>.

Before Installing the Enterprise Virtual Array Storage System

Retrieve the items in [Table 1](#) on page 3. The documents and software enable you to install, initialize, and operate the EVA. Following the table is a description of the documents or software.

Note: For any last-minute instructions, refer to The *HP StorageWorks Enterprise Virtual Array v3.014 Release Notes* prior to installing and initializing your storage system.

Note: To retrieve the latest versions of Enterprise Virtual Array or Virtual Controller System (VCS) documents shown below from the Web, go to the HP storage web site at: <http://welcome.hp.com/country/us/eng/prodserv/storage.html>

Table 1: Enterprise Virtual Array and VCS Documents and Software

Item	Part Number & Location
HP OpenView Storage Management Appliance software v2.1	http://ovweb.external.hp.com/lpe/doc_ser_v/snf/select "storage area manager" from the product dropdown, then select "a.03.10"
HP OpenView Storage Operations Manager v1.0 software, which is a bundle that includes CV EVA v3.1	T2538AA for new EVA customers T2543AA for EVA migration customers HP OpenView Storage Operations Manager kit Must order the appropriate LTU to align with your current capacity level
HP StorageWorks Enterprise Virtual Array Quick Specs	http://welcome.hp.com/country/us/eng/prodserv/storage.html
HP StorageWorks Enterprise Virtual Array Release Notes	T3030-98301 http://welcome.hp.com/country/us/eng/prodserv/storage.html
HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions	AA-RS29E-TE http://welcome.hp.com/country/us/eng/prodserv/storage.html
HP StorageWorks Enterprise Virtual Array World Wide Name Label	Ships with hardware.
HP StorageWorks System Software for Enterprise Virtual Array Installation Instructions	QB-6RNAA-SE HP StorageWorks VCS 3.014 Kit
HP StorageWorks VCS License Key Retrieval Instruction Sheet with Authorization ID	QB-6RNAA-SE HP StorageWorks VCS 3.014 Kit
HP StorageWorks VCS v3.014 firmware download	http://h18006.www1.hp.com/products/sanworks/softwaredrivers/vcs/index.html

HP OpenView Storage Management Appliance Software v2.1

The HP OpenView Storage Management Appliance software v2.1 is shipped with the HP OpenView Storage Management Appliance III, along with HP StorageWorks Command View EVA v3.0a. Command View EVA v3.0a is the last release of Command View software bundled with the Storage Management Appliance and VCS kits.

Note: To gain the most benefit from Enterprise Virtual Array VCS v3.014 software, you should install HP OpenView Storage Operations Manager v1.0 software (described below) after you install the Storage Management Appliance v2.1 software.

After retrieving the above documents, you will be able to install, initialize, and operate the Enterprise storage system.

HP OpenView Storage Operations Manager v1.0 Software

HP OpenView Storage Operations Manager v1.0 is required for the complete installation of EVA with your VCS v3.014 kit and Storage Management Appliance software v2.1.

HP OpenView Storage Operations Manager v1.0 may be ordered separately from your EVA and VCS kits. The product contains:

- HP StorageWorks Command View EVA v3.1.
- HP OpenView Storage Node Manager v3.1 license also includes this bundle with a 60-day instant on capability for the other modules that come with the HP OpenView Storage Area Manager suite. This allows you to take advantage of software building blocks to improve capacity utilization and full optimization of your SAN performance.

HP OpenView Storage Area Manager (SAM) v3.1 evaluation software is included with your HP OpenView Storage Operations Manager v1.0 purchase. OpenView SAM lets you take advantage of software building blocks to improve capacity utilization and optimize SAN performance.

HP StorageWorks Enterprise Virtual Array Quick Specs

HP StorageWorks Enterprise Virtual Array Quick Specs provides key product features, support, warranty, and requirement information not in other documentation.

HP StorageWorks Enterprise Virtual Array Release Notes

The *HP StorageWorks Enterprise Virtual Array Release Notes* explains items not covered in other documents and support information.

HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions

The *HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions* provides procedures for upgrading or downgrading EVA product versions and installing related software.

HP StorageWorks Enterprise Virtual Array World Wide Name Label

The *HP StorageWorks Enterprise Virtual Array World Wide Name (WWN) Label* is a single sheet with three identical labels that ship with, and may be affixed to, the Enterprise storage system. It provides the 16-digit WWN number required to create an initialized Enterprise storage system.

This document explains the purpose of the World Wide Name (WWN) Label and its functionality in the license key retrieval process and in activating an Enterprise storage system.

For more information on the World Wide Name Label, refer to the *HP StorageWorks Enterprise Virtual Array User Guide*.

HP StorageWorks System Software for Enterprise Virtual Array Installation Instructions

The *HP StorageWorks System Software for Enterprise Virtual Array Installation Instructions* provides installation procedures for the Enterprise Virtual Array system software.

HP StorageWorks VCS License Key Retrieval Instruction Sheet

The VCS License Key Retrieval Instruction Sheet ships separately from the Enterprise storage system and is found in each HP StorageWorks VCS software kit. This licensing document that provides the Authorization ID, which combined with the WWN, allows you to retrieve the license key. The document also provides instructions on how to obtain a license key at the HP License Key Retrieval web site.

If you purchased the Business Copy or Continuous Access licenses, you will also need the *HP StorageWorks Business Copy or Continuous Access License Key Retrieval Instruction Sheet* (this document ships with those kits and includes the Authorization ID). All EVA licenses may be redeemed at the same time.

With the release of VCS v3.0b for the HSV110 and VCS 3.0 for the HSV100, the VCS software no longer has a managed license. Command View EVA 3.1 is required to activate the EVA.

Note: Make sure that you complete the license key retrieval process prior to installing Enterprise Virtual Array or Command View EVA software. It may take up to 48 hours to receive the license key after your request is submitted.

HP StorageWorks VCS v3.014 kit

The *HP StorageWorks VCS v3.014* kit includes the VCS software necessary to run the Enterprise Virtual Array and is located at <http://h18006.www1.hp.com/products/sanworks/softwaredrivers/vcs/index.html>.

Initial Installation

Software must be installed in the following sequence:

1. HP OpenView Storage Management Appliance software v2.1.
2. HP OpenView Storage Operations Manager v1.0.
3. Enterprise Virtual Array System Software version 3.014. This software contains the Virtual Controller Software (VCS) version 3.014.

Note: For first-time users, the Storage Management Appliance software is preinstalled on your Storage Management Appliance, and VCS v3.014 is preinstalled on the Enterprise Virtual Array. A copy of Enterprise Virtual Array VCS v3.014 is provided on CD-ROM for recovery purposes.

Updating Product Software

For information related to upgrading or downgrading the VCS version on your EVA and installing other EVA-related software, refer to the *HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions*.

Enterprise Virtual Array Associated Documentation

Table 2 through Table 6 provide a quick reference list of documents associated with HP StorageWorks Enterprise Virtual Array version 3.014. The tables list documents associated with Storage Operations Manager, virtual arrays, the Storage Management Appliance, host operating systems, and the Storage Management Initiative Specification (SMI-S).

Storage Operations Manager

Table 2: Storage Operations Manager Documents

Document Title	Part Number
HP OpenView Storage Operations Manager Installation Overview	T2538AA for new EVA customers T2543AA for EVA migration customers HP OpenView Storage Operations Manager kit

Enterprise Virtual Arrays

Table 3: Enterprise Virtual Array Documents

Document Title	Part Number
HP StorageWorks Enterprise Virtual Array Updating Product Software Instructions	AA-RS29E-TE
HP StorageWorks System Software for Enterprise Virtual Array Installation Card	AV-RQRHE-TE
HP StorageWorks Enterprise Virtual Array Hardware Configuration Guide	AA-RS28C-TE
HP StorageWorks Enterprise Virtual Array User Guide	EK-E2USR-UA.C01
HP StorageWorks Enterprise Virtual Array World Wide Name Label	EK-E5WWN-IA.B01

Table 3: Enterprise Virtual Array Documents (Continued)

Document Title	Part Number
HP StorageWorks Enterprise Virtual Array QuickSpecs	DA-11006
HP StorageWorks Command View EVA Getting Started Guide	AA-RQZBE-TE
HP StorageWorks—Command View EVA Interactive Help File	AA-RPKKE-TE

Storage Management Appliance

Table 4: Storage Management Appliance Documents

Document Title	Part Number
HP OpenView Storage Management Appliance Software v2.1 Cover Letter	AV-RTY4A-TE
HP OpenView Storage Management Appliance Software v2.1 Update Installation Card	AV-RNE9H-TE
HP OpenView Storage Management Appliance Software Release Notes	AA-RNEAK-TE
HP OpenView Storage Management Appliance Software User Guide	AA-RSOAC-TE

Host Operating Systems

Table 5: HP StorageWorks Host Operating System Documents

Document Title	Part Number
HP StorageWorks HP-UX Kit v3.0b for Enterprise Virtual Array Installation and Configuration Guide	AA-RUHKB-TE
HP StorageWorks HP-UX Kit v3.0d for Enterprise Virtual Array Release Notes	AV-RUHND-TE
HP StorageWorks IBM AIX Kit v3.0b for Enterprise Virtual Array Installation and Configuration Guide	AA-RUHAB-TE
HP StorageWorks IBM AIX Kit v3.0d for Enterprise Virtual Array Release Notes	AV-RUHDD-TE
HP StorageWorks Linux Kit V3.0d for Enterprise Virtual Array Release Notes	AV-RUHYD-TE

Table 5: HP StorageWorks Host Operating System Documents (Continued)

Document Title	Part Number
HP StorageWorks Novell NetWare Kit V3.0c for Enterprise Virtual Array Installation and Configuration Guide	AA-RUHQD-TE
HP StorageWorks Novell NetWare Kit V3.0d for Enterprise Virtual Array Release Notes	AV-RUHTD-TE
HP StorageWorks OpenVMS Kit v3.0b for Enterprise Virtual Array Installation and Configuration Guide	AA-RUGUB-TE
HP StorageWorks OpenVMS Kit v3.0c for Enterprise Virtual Array Release Notes	AV-RUGXC-TE
HP StorageWorks Storage System Scripting Utility v3.0b for Enterprise Virtual Array Reference Guide	AA-RU5HA-TE
HP StorageWorks Sun Solaris Kit v3.0b for Enterprise Virtual Array Installation and Configuration Guide	AA-RUH4B-TE
HP StorageWorks Sun Solaris Kit v3.0d for Enterprise Virtual Array Release Notes	AV-RUH7D-TE
HP StorageWorks Tru64 UNIX Kit v3.0b for Enterprise Virtual Array Installation and Configuration Guide	AA-RUGPB-TE
HP StorageWorks Tru64 UNIX Kit v3.0c for Enterprise Virtual Array Release Notes	AV-RUGSC-TE
HP StorageWorks Windows NT and 2000 Kit v3.0b for Enterprise Virtual Array Installation and Configuration Guide	AA-RUGZB-TE
HP StorageWorks Windows NT and 2000 Kit v3.0c for Enterprise Virtual Array Release Notes	AV-RUH2C-TE

Storage Management Initiative Specification (SMI-S)

Table 6: Storage Management Initiative Specification Documents

Document Title	Part Number
HP StorageWorks SMI-S Developer's Guide v1.0	AA-RUQEA-TE
HP StorageWorks SMI-S EVA Installation Instructions v1.03	AA-RUQFA-TE
HP StorageWorks SMI-S EMA Installation Instructions v1.01	AA-RUQGA-TE
HP StorageWorks SMI-S VA Installation Instructions v1.02.02	AA-RUQJA-TE

Table 6: Storage Management Initiative Specification Documents (Continued)

Document Title	Part Number
HP StorageWorks SMI-S XP Installation Instructions v1.03	AA-RUQHA-TE
HP StorageWorks SMI-S EVA Release Notes v1.03	AA-RUQKA-TE
HP StorageWorks SMI-S EMA Release Notes v1.01	AA-RUQLA-TE
HP StorageWorks SMI-S XP Release Notes v1.03	AA-RUQNA-TE
HP StorageWorks SMI-S VA Release Notes v1.02.02	AA-RUQMA-TE

Note: If you need additional information or storage documentation, go to:
<http://welcome.hp.com/country/us/eng/prodserv/storage.html>.

For additional information on SMI-S, go to:
<http://h18006.www1.hp.com/products/sanworks/managementappliance/index.html>

For additional information on Command View EVA, go to:
<http://h18006.www1.hp.com/products/sanworks/managementappliance/documentation.html>

For additional information on Storage Operations Manager, go to <http://h18006.www1.hp.com/storage/software.html>, click on the page titled **integrated storage resource management software**, and look under the subtitle **device and configuration management software**.
